

1 unspecified method involving the comparison of the physical locations of the calling and
2 called party. If Verizon's approach were adopted, Verizon would intend to bill switched
3 access charges on calls that, from the calling party's perspective, are local. The ultimate
4 outcome Verizon is seeking is to insulate their Foreign Exchange (FX) service from
5 competitive offerings by CLECs.

6

7 **Q. Does Verizon support its belief that the physical locations of the parties**
8 **should be utilized to determine the jurisdiction of a call?**

9 A. No, it does not. At page 5 of Verizon's Direct Testimony, Verizon boldly makes
10 the unsubstantiated claim that "The physical locations of the caller and the called party
11 must be used to determine whether a call is eligible for reciprocal compensation under §
12 251(b)(5) of the Act." This is simply not true. Such a requirement is not to be found in
13 the current interconnection agreement, in existing FCC Orders, or in the
14 Telecommunications Act of 1996. What Verizon advances as a requirement is simply its
15 own opinion.

16

17 **Q. You describe determining jurisdiction of a call based on the NPA-NXXs of**
18 **the called and calling parties as the traditional method of making this**
19 **determination. Has any state adopted a method other than use of NPA-NXXs for**
20 **purposes of identifying toll vs. local traffic?**

21 A. No. Not a single state has implemented a different method of distinguishing
22 between local and toll traffic. All traffic continues to be put through a process that
23 compares the NPA-NXX of the calling party to the NPA-NXX of the called party. If this

1 comparison identifies the call as toll it is treated as toll. If the comparison identifies the
2 call as local, it is treated as local. Every carrier in the country, to include Verizon,
3 adheres to this standard procedure.

4

5 **Q. Has the commission identified the differences in circumstances when**
6 **reciprocal compensation applies and when access charges would apply?**

7 A. Yes. At paragraph 1034 of the Local Competition Order the Commission stated
8 as follows:

9 Access charges were developed to address a situation in which three carriers –
10 typically, the originating LEC, the IXC, and the terminating LEC – collaborate to
11 complete a long-distance call. As a general matter, in the access charge regime,
12 the long-distance caller pays long-distance charges to the IXC, and the IXC must
13 pay both LECs for originating and terminating access service. By contrast,
14 reciprocal compensation for transport and termination of calls is intended for a
15 situation in which two carriers collaborate to complete a local call. In this case,
16 the local caller pays charges to the originating carrier, and the originating carrier
17 must compensate the terminating carrier for completing the call.

18 The FX service of such concern to Verizon is clearly a circumstance where two
19 carriers are collaborating to complete a local call and not where three carriers, two LECs
20 and an IXC, are collaborating to complete a long-distance call. As Verizon describes, FX
21 traffic involves calls originating on the local network of one LEC and terminating on the
22 local network of another LEC. There is no IXC involved.

1 **Q. Can you provide additional support for this distinction between local and toll**
2 **service?**

3 A. Yes. The definitions of local, or exchange service, and toll service found in Title
4 47 of USC provide further support that FX traffic is not toll traffic. 47 U.S.C. § 153 (47)
5 defines telephone exchange services as follows:

6 The term “telephone exchange service” means (A) service within a telephone
7 exchange, or within a connected system of telephone exchanges within the same
8 exchange area operated to furnish to subscribers intercommunicating service of
9 the character ordinarily furnished by a single exchange, and which is covered by
10 the exchange service charge, or (B) comparable service provided through a
11 system of switches, transmission equipment, or other facilities (or combination
12 thereof) by which a subscriber can originate and terminate a telecommunications
13 service.”

14 On the other hand toll service, at 47 U.S.C. § 153 (48) is defined as follows:

15
16 The term “telephone toll service” means telephone service between stations in
17 different exchange areas for which there is made a separate charge not included in
18 contracts with subscribers for exchange service.

19 Under these definitions FX traffic cannot be placed in the jurisdiction of toll
20 service. The Verizon local service subscriber placing a call to a Verizon assigned FX
21 number does not incur a separate charge beyond the charges for the local exchange
22 service. In fact, consistent with the definition of telephone exchange service, the ability
23 to originate calls to FX numbers is included in the local exchange service charge. Verizon
24 appears intent on punishing its own end users for calling a subscriber to a *competitive* FX

1 offering based on its incorrect assertion that this is toll traffic. At page 8 of the testimony
2 Verizon complains that it is “unable to bill these toll charges to the originating
3 customer....” Again, this would not be Verizon’s intention if the originating customer
4 were calling a subscriber to Verizon’s FX offering.

5

6 **Q. Has the commission determined that the physical locations of the calling and**
7 **called parties are the test as to what determines whether a call is local or toll?**

8 A. Absolutely not; it has left that determination to the states. The Commission, at
9 paragraph 1035 of the Local Competition Order states that “state commissions have the
10 authority to determine what geographic areas should be considered ‘local areas’ for the
11 purpose of applying reciprocal compensation obligations under section 251(b)(5),
12 consistent with the state commissions’ historical practice of defining local service areas
13 for wireline LECs.”

14

15 **Q. Is Verizon’s FX service categorized as local exchange or interexchange by the**
16 **Virginia commission?**

17 A. While the Virginia Commission has not addressed this issue in the context of an
18 arbitration or generic proceeding, it has approved the Verizon FX service offering which
19 is found in the Verizon Virginia, Inc. Local Exchange Services Tariff, S.C.C. VA. No.
20 202, at Section 4.a. Here Verizon defines its own FX service as “exchange service
21 furnished from one exchange to a location in another exchange...” Verizon’s FX service
22 is not found in Verizon’s access or long distance tariffs.

1 Accordingly, with regard to FX service in Virginia, the Commission has approved
2 Verizon's offering and provisioning of that service as local service.

3

4 **Q. Verizon characterizes the CLEC position on this issue as a “gaming scheme,”**
5 **do you agree?**

6 A. No. It is Verizon that is proposing to change the historical method of determining
7 the jurisdiction of traffic based on the NPA-NXXs of the calling and called parties.
8 Verizon's proposal is a departure even from its own method of determining jurisdiction.
9 In Verizon's Long Distance Services Tariff, S.C.C. Va. No. 209, Section 2A, Part C (1)
10 Verizon indicates as follows: “Rates for service between points are based on the airline
11 mileage between rate centers” (Emphasis added). The applicable rate centers (and the
12 associated distances) are determined not based on the physical location of the customer
13 but rather based on the NPA-NXXs assigned to the called and calling parties. Verizon
14 does not look at the street addresses (i.e., physical location) of the customers involved in
15 a particular call, they look at the NPA-NXXs, identify the rate centers to which the
16 calling and called NPA-NXXs are associated, and, if those rate centers are not within the
17 local calling area of each other, they calculate airline mileage based on the V&H
18 coordinates associated with the rate centers.

19 It is exactly this comparison of NPA-NXXs that allows Verizon to treat its own
20 FX traffic as local. If Verizon were making its jurisdictional determination based on the
21 physical location of the calling and called parties, it would be having to segregate its own
22 FX traffic from all of its toll traffic in order to not bill toll charges. This is clearly not
23 Verizon's practice. In fact, WorldCom believes that in the instance of calls originated

1 from WorldCom end users to Verizon assigned FX numbers, such calls are not only
2 treated by WorldCom as local, but Verizon bills WorldCom for reciprocal compensation
3 for the transport and termination associated with such FX calls.

4 WorldCom's proposal ensures that the historical method of determining
5 jurisdiction remains consistent among all parties. Verizon's proposal establishes a new,
6 unique method for its CLEC competitors while allowing Verizon to continue with the
7 standard methodology. Such unequal treatment should not be allowed.

8

9 **Q. At page 6, and elsewhere in the testimony, the Verizon witness indicates that**
10 **a CLEC's offering of FX service requires Verizon to bear the costs of transporting**
11 **the traffic to the CLEC switches. Please comment.**

12 A. Verizon's responsibility is to deliver traffic originating on its network to the point
13 of interconnection (POI) with the CLEC network, not with the CLEC's switch. A CLEC
14 must establish at least one POI per LATA, regardless of where the CLEC's switch is
15 located. With FX service, Verizon's responsibility is no different, and does not burden
16 Verizon with any additional costs than are involved with the delivery of any other local
17 traffic to the POI(s). Verizon also wrongly portrays its network as the only one involved
18 in providing transport for FX traffic.

19 The WorldCom local network in Virginia is served by two switches. One is
20 located in Washington, D.C. and the other in Reston, VA. WorldCom has established
21 two POIs in Virginia to which Verizon delivers traffic destined for the WorldCom local
22 switches. One POI is located in Arlington, Virginia, and the other in Winchester,

1 Virginia. The switch in Washington, D.C. is interconnected with both of these POIs, and
2 the Reston switch is interconnected with the Arlington POI.

3 Take as an example, a customer located in the same rate center as the
4 Washington, D.C. switch that wants a foreign presence in the Leesburg rate center. In
5 this instance WorldCom would provide the customer a telephone number from an NPA-
6 NXX that is assigned to the Leesburg rate center. Once established, a call placed by a
7 Verizon customer located in the Leesburg rate center to the FX telephone number would
8 be routed by Verizon to the Winchester POI. The distance, based on the aforementioned
9 V & H coordinates, from the Leesburg rate center to the Winchester POI would be
10 approximately 36 miles. Once Verizon delivers the call to the Winchester POI, its
11 network responsibility is over and the call is then routed onto the WorldCom transport
12 network. The distance from the Winchester POI to the Washington, D.C. switch is
13 approximately 69 miles. WorldCom is transporting this call almost twice the distance as
14 Verizon. It should also be noted that if this were not an FX call and the called party was
15 actually located in the Leesburg rate center, Verizon would deliver that call to the same
16 Winchester POI and incur the same transport costs. Verizon has not supported its
17 assertion that it is incurring excessive transport costs and, as this example makes clear,
18 there is no such “additional” burden.

19 **Q. Based on WorldCom’s current network configuration, can you quantify the**
20 **amount of transport that Verizon is providing for traffic that originates on its**
21 **network that is delivered to the points of interconnection with WorldCom?**

22 A. Yes. Based on July 2001 traffic and the current points of interconnection that
23 have been established between the Verizon and WorldCom networks for exchange of

1 Virginia local traffic, on average Verizon is transporting traffic approximately 10 miles.
2 This was calculated based on the V&H coordinates associated with each of the rate
3 centers from which Verizon customers originate local calls to WorldCom customers and
4 the V&H coordinates of the two points of interconnection in Virginia.

5 Because WorldCom's proposal is to maintain the current method of determining
6 jurisdiction by comparison of the NPA-NXXs associated with the call, the average
7 transport distance being experienced by Verizon will not change. Verizon's
8 unsubstantiated claim of a tremendous "transport burden" entirely lacks merit.

9

10 **Q. Verizon also complains that it is losing toll revenues by not being able to bill**
11 **its originating customers for calls to FX numbers. Is this a legitimate concern?**

12 A. No. The very point of this service is to provide end users a local calling number
13 for a particular business. Verizon incorrectly assumes that this same traffic would exist
14 even if it required a toll call. But if the originating caller is looking to call a local number
15 for the service he seeks, it is highly unlikely that he would instead dial a toll number
16 (which would allow Verizon to bill its toll charges). Far more likely, the customer would
17 simply find a vendor with a local number and place that call instead. Verizon is not
18 losing toll revenues.

19

20 **Q. Verizon expresses concern for the use of numbering resources in conjunction**
21 **with FX service. Please comment.**

22 A. Verizon, consistent with its desire to eliminate competition with its own FX
23 service, suggests that because CLECs utilize NPA-NXX assignments in the provision of

1 FX service, CLECs should be prohibited from making such a competitive offering
2 available. Verizon ignores that its own use of numbering resources for the provision of
3 FX service raises the same concerns. Obviously, numbering resources must be conserved
4 and utilized efficiently. Implementation of conservation measures for numbers and
5 efficient management practices must be adopted by all parties. However, elimination of a
6 competitive offering is an unacceptable and counter productive method of conserving
7 numbers. Taken to its logical conclusion, the best way to conserve numbers would be to
8 prohibit ALL local competition. But the Telecommunications Act of 1996 requires
9 Verizon to make available to competitors the same capabilities that it makes use of itself.

10

11 **Q. Does the Maine PUC order cited by Verizon provide results that should be**
12 **supported by this Commission?**

13 A. No. The Maine Commission identified a pressing problem with number exhaust
14 in the state of Maine. The decision it reached was driven by that concern, at the expense
15 of the competitive market in Maine. While determining that the FX service being offered
16 by Brooks Fiber was not local, the Commission realized that competition was important
17 to allow customers to reach their Internet Service Providers.² Having a statutory
18 obligation to ensure that end users across the state of Maine had affordable access to the
19 Internet, the Maine Commission directed Verizon to create a service offering for ISPs
20 that would replace the service being offered by Brooks.

21 As of this date (some two and a half years since the investigation was opened)
22 Brooks, with the authority of the Maine Commission, continues to provide its FX service

² As indicated in my direct testimony, the FCC's recent ruling establishing an interim compensation mechanism for traffic to ISPs may limit the amount of traffic considered under this issue.

1 to its existing customers on a grandfathered basis during the pendency of Verizon's
2 continuing efforts to develop and implement an acceptable substitute service.

3 The impact on the competitive market is best expressed by one of the Brooks FX
4 customers in its recent filing with the Maine Commission for an investigation into
5 Verizon's implementation of its substitute service. In its filing, Great Works Internet
6 concludes:

7 GWI is concerned that the cost of this service will be much more costly than
8 promised and that GWI will not be able to maintain its commitment to quality,
9 which it has long enjoyed while using Brooks for its dialup infrastructure. And
10 most troublesome of all, is the fact that GWI was forced into a position where it
11 has only one choice for its dialup infrastructure. By action of the MPUC under
12 98-758, there is no longer any competition for VZ-ME in the ISP service arena.
13 GWI is quite confident that VZ-ME's commitment to quality and customer
14 service will further erode.

15 The negative impacts on the competitive market associated with Verizon's
16 proposal are accurately portrayed by GWI. The Maine decision, instead of supporting
17 Verizon's position, is illustrative of how a refusal to permit competitive FX services
18 eliminates competition in the local service market.

19

20 **Q. Please comment on the additional state decisions cited by Verizon.**

21 A. Verizon's cites are selective. Contrary to Verizon's statement that "To date, no
22 state has agreed with the CLEC's position," many states have done just that.

23 As I cited in my Direct Testimony, the California PUC, in Order Instituting
24 Rulemaking on the Commission's Own Motion Into Competition for Local Exchange

1 Service, Rulemaking 95-04-043 (Decision 99-09-029, September 2, 1999), has addresses
2 this issue and found in favor of the CLEC's position as follows:

3 Carriers should not be prohibited from designating different rating and routing
4 points for call destinations since such a prohibition could undermine the
5 incentives for carriers to develop innovative service alternatives in the most
6 economically and technologically efficient manner.

7 * * * *

8 As discussed below, we conclude that the rating of calls as toll or local should be
9 based upon the designated rate center of the NXX prefix of the calling and called
10 parties' numbers. Even if the called party may be physically located in a different
11 exchange from where the call is rated, the relevant rating point is the rate center of
12 the NXX prefix.”

13 * * * *

14 For purposes of considering the issue of call rating, it is not necessary to
15 deliberate at length over whether Pac-West's service conforms to some particular
16 definition of 'foreign exchange service' based upon specific provisioning
17 arrangements. Although the Pac West form of service differs from certain other
18 forms of foreign exchange service in how it is provisioned, the ultimate end-user
19 expectation remains the same, namely to achieve a local presence within an
20 exchange other than where the customer resides. From the end-use customer's
21 perspective, Pac-West's service is a competitive alternative to other forms of
22 foreign exchange service.”

1 The Kentucky Commission, in Case No. 2000-404, dated March 14, 2001, an
2 arbitration decision regarding BellSouth and Level 3, has similarly found in favor of the
3 CLEC as follows:

4 Both utilities offer a local telephone number to a person residing outside the local
5 calling area. BellSouth's service is called foreign exchange ("FX") service and Level 3's
6 service is called virtual NXX service. The traffic in question is dialed as a local call by
7 the calling party. BellSouth agrees that it rates such foreign exchange traffic as local
8 traffic for retail purposes. These calls are billed to customers as local traffic for retail
9 purposes. These calls are billed to customers as local traffic. If they were treated
10 differently here, BellSouth would be required to track all phone numbers that are foreign
11 exchange or virtual NXX type service and remove these from what would otherwise be
12 considered local calls for which reciprocal compensation is due. This practice would be
13 unreasonable given the historical treatment of foreign exchange traffic as local traffic.

14
15 Accordingly, the Commission finds that foreign exchange and virtual NXX
16 services should be considered local traffic when the customer is physically located within
17 the same LATA as the calling area with which the telephone number is associated.

18 The Michigan Commission, in its response to Ameritech Michigan's request to,
19 among other things, exempt foreign exchange service from payment of reciprocal
20 compensation (Case No. U-12696, January 23, 2001), also found in favor of the CLEC
21 position as follows:

22 The Commission rejects the proposal to reclassify FX calls as non-local for
23 reciprocal compensation purposes. Ameritech Michigan has not explained whether, or
24 how, the means of routing a call placed by one LEC's customer to another LEC's point of

1 interconnection affects the costs that the second LEC necessarily incurs to terminate the
2 call. As a matter of historical convention, the routing of that call, i.e., whether or not it
3 crosses exchange boundaries, has not been equated with its rating, i.e., whether local or
4 toll. Moreover, the discretion that CLECs exercise in designing their local calling areas
5 is a competitive innovation that enables them to provide valuable alternatives to an
6 ILEC's traditional service. The Commission finds no reason to change these standards,
7 particularly if the end result would be an unnecessary restriction on the services that
8 customers want and need. Moreover, the application does not address how the carriers
9 would make the necessary changes to their billing systems or whether the changes would
10 be technically feasible at an affordable cost for both Ameritech Michigan and the CLECs.

11 While the Verizon witness cites a North Carolina decision in a BellSouth / AT&T
12 arbitration, that decision appears to deal with transport of traffic to the POI generally,
13 rather than in the context of FX traffic specifically. Verizon fails to mention the North
14 Carolina decision in the BellSouth / MCImetro arbitration (Docket No. P-474, Sub 10)
15 which addresses the provision of FX service. Again, finding in favor of the MCImetro
16 position, the Commission stated:

17 The Commission notes that NPA/NXX codes were developed to rate calls and,
18 therefore, MCI's assertion that whether a call is local or not depends on the NPA/NXX
19 dialed, not the physical location of the customer, is reasonable and appropriate.

20 In sum, there are many state commissions that have supported the position being
21 advanced by WorldCom in this proceeding to the benefit of the competitive markets in
22 their respective states. The Commission's decision in this proceeding should convey
23 those same benefits to the state of Virginia.

1 **Q. What resolution does WorldCom recommend to the Commission on this**
2 **issue?**

3 A. The Commission should adopt WorldCom's language with regard to assigning
4 NXXs within the LATA in a manner that provides for rating points different from routing
5 points and to conclude that the appropriate method for determining the jurisdiction of this
6 traffic is to compare the rate centers associated with the calling and called NXXs. This
7 resolution will permit WorldCom to offer competitive FX service to their customers on
8 non-discriminatory terms.

9 Additionally, for the reasons stated above and in my Direct Testimony, Verizon
10 should be required to pay reciprocal compensation to WorldCom for transport and
11 termination of this traffic.

12 Verizon's proposed resolution of this matter, on the other hand, would not allow
13 CLECs to assign NXXs in such a manner as to provide local FX service. Verizon refuses
14 to recognize this as local traffic and insists on applying originating access charges as well
15 as refusing to pay reciprocal compensation to WorldCom. Verizon proposes to treat
16 CLECs FX service differently than Verizon treats its own retail FX service. The
17 Commission should reject this discrimination.

18 **Issues III-1, III-2**

19 *Is Verizon obligated to accommodate indirect interconnection between*
20 *Telecommunications Carriers by providing transit service?*

1

2 **Q. The Verizon Panel says that the Act requires each carrier to interconnect**
3 **with the facilities of another requesting carrier. Please comment on this.**

4 A. The Act imposes upon each carrier the duty to interconnect directly or indirectly.
5 The Act does not impose upon new entrants a duty to interconnect directly with other
6 new entrants, as Verizon suggests. Indeed, the Commission has noted specifically that
7 direct interconnection is not required of all carriers and that two non-incumbent LECs
8 could interconnect with one another indirectly via interconnection with an incumbent
9 LECs network.³

10

11 **Q. The Verizon Panel says that Verizon must limit transit traffic to prevent**
12 **tandem exhaust. Please comment on this.**

13 A. Verizon has offered no evidence establishing that transit traffic contributes in any
14 significant way to tandem exhaust. Moreover, Verizon has only identified three near
15 term tandem exhausts in the State of Virginia. Verizon has indicated that it will deploy
16 new tandems to address this situation. There is no need to place an arbitrary DS-1 limit
17 on transit traffic, as Verizon proposes.

18

19 **Q. The Verizon Panel says that new entrants should interconnect directly with**
20 **other carriers once transit traffic volumes reach a DS-1 level. Do you agree?**

21 A. No. WorldCom has every incentive to interconnect directly with carriers when it
22 is efficient to do so, and does so when traffic volumes so warrant. The DS-1 limitation
23 on transit traffic proposed by Verizon is arbitrary. It represents a small volume of traffic

1 (24 conversations) and will impose great inefficiencies on CLEC networks. The cost of a
2 physical interconnection between two companies for one DS-1s traffic would be
3 disproportionate for that small level of demand. Verizon's proposal would create many
4 small scale, but high cost per circuit, duplicate networks. There should be no arbitrary
5 limits placed on transit traffic, particularly given the explicit reference in the Act to
6 indirect interconnection.

7

8 **Q. Please describe Verizon's proposal with respect to the charge for transit**
9 **traffic?**

10 A. The Verizon Panel indicates that Verizon will charge TELRIC-based rates, i.e., a
11 tandem switching charge, for transit traffic up to a DS-1 level. However, it asserts that
12 there would be two additional charges, which are not based on TELRIC, for transit traffic
13 above the DS-1 level.

14

15 **Q. Please comment on Verizon's proposal.**

16 A. There is no basis for different charges to apply when transit traffic is greater than,
17 as opposed to less than, the DS-1 level. The cost to provide the transiting function -- the
18 cost of tandem switching -- is the same whatever the volume of the transit traffic is. The
19 TELRIC-based tandem switching rate fairly reimburses Verizon for the cost of the
20 tandem switching function. Also, Verizon has provided virtually no explanation
21 concerning the derivation of these charges.

³ Local Competition Order, ¶ 997.

1 **Q. What justification has Verizon offered for these charges?**

2 A. Verizon has said that these charges are intended to make Verizon VA whole and
3 to supply new entrants with an incentive to enter into separate interconnection
4 agreements.

5

6 **Q. Please comment on this justification.**

7 A. The TELRIC based tandem switching charge by definition will make Verizon
8 whole for the tandem switching function provided. The idea that non-cost-based charges
9 should be imposed to provide new entrants with an incentive to enter into multiple
10 interconnection arrangements with one another is unlawful. The Act specifically
11 provides for indirect interconnection between new entrants and does not require the
12 multiple interconnection agreements sought by Verizon. Departures from TELRIC are
13 not permitted to create incentives to deter interconnection.

14

Issue III-3

15 *Does MCIW have the right to require interconnection via a Fiber Meet Point*
16 *arrangement, jointly engineered and operated as a SONET Transmission System (SONET*
17 *ring)?*

18

19 **Q. Please comment on Verizon's general description of a midspan fiber meet**
20 **point interconnection arrangement?**

21 A. Verizon accurately describes this form of interconnection as one in which
22 "Verizon VA and the CLEC generally share equally the costs to build the facility and
23 equally split the capacity for transport." WorldCom has proposed contract language

1 which provides for the equal sharing of costs with each carrier providing its fiber and a
2 fiber optic terminal.

3

4 **Q. Please comment on the statement by the Verizon Panel that a mid-span fiber**
5 **meet point interconnection “must occur pursuant to mutual agreement between**
6 **Verizon VA and the CLEC.”**

7 A. Verizon is incorrect. WorldCom is entitled to any technically feasible form of
8 interconnection-- and Verizon cannot condition a technically feasible form of
9 interconnection on its approval. The Commission’s regulations include meet point
10 interconnection as one of the methods of interconnection which a requesting carrier is
11 entitled to upon request. 47 CFR § 51.321(b)(2). Verizon’s insistence that its consent to a
12 mid-span fiber meet point arrangement is required denies WorldCom its right to this
13 technically feasible form of interconnection. If Verizon’s consent is required, Verizon
14 can veto this form of interconnection, in violation of WorldCom’s rights, as it has every
15 incentive to do.

1 **Q. Please describe the Memorandum of Understanding (MOU) process set forth**
2 **in the Verizon Panel testimony.**

3 A. The Verizon describes a process in which a MOU is developed to memorialize the
4 terms, conditions, technical and operational details, and rates of the mid-span fiber meet.
5 The Panel goes on to opine that once the MOU is signed it becomes an addendum to the
6 interconnection contract.

7

8 **Q. Please comment on that process.**

9 A. WorldCom has a right to an interconnection agreement specifying the terms,
10 conditions, technical and operational details, and rates of the mid-span fiber meet. There
11 is no need to defer these matters to a later process. WorldCom has over 40 midspan
12 meets in operations with ILECs as diverse as BellSouth, PacBell, Ameritech,
13 Southwestern Bell, Sprint, and Broadwing. This is not a novel or futuristic process that
14 needs to be further discussed before it is made part of the Interconnection Agreement.
15 The Interconnection Agreement should include these terms:

16 1.1.2 Verizon shall provide Interconnection at any Technically Feasible point, by any
17 Technically Feasible means, including, but not limited to, a Fiber Meet, at one or more
18 locations in each LATA in which MCI originates local, intraLATA toll, or Meet Point
19 Switched Access traffic and interconnects with Verizon.

20 1.1.5 Fiber Meet

21 1.1.5.1 Fiber Meet is the preferred network Interconnection method of the Parties.
22 Where the Parties interconnect their networks pursuant to a Fiber Meet, the Parties shall
23 jointly engineer and operate the Interconnection as a single SONET transmission system
24 for the transmission and routing of Telephone Exchange Service and Exchange Access.

1 1.1.5.2 The Parties agree to establish technical interface specifications for Fiber Meet
2 arrangements that permit the successful Interconnection and completion of traffic routed
3 over the facilities that interconnect at the Fiber Meet. Each Party is responsible for
4 designing, provisioning, ownership, and maintenance of all equipment and facilities on its
5 side of the Fiber Meet. The technical specifications will be designed so that each Party
6 may, as far as is Technically Feasible, independently select the transmission,
7 multiplexing, and fiber terminating equipment to be used on its side of the Fiber Meet.
8 The Parties will work cooperatively to achieve equipment compatibility. Requirements
9 for the Interconnection specifications will be defined in joint engineering planning
10 sessions between the Parties. MCI shall document the specifications as they are
11 developed and distribute them to Verizon. The Parties will use good faith efforts to
12 develop and agree on these specifications within 30 days after the determination by the
13 Parties that the specifications will be implemented, and in any case, prior to the
14 establishment of any Fiber Meet arrangements between them. If the Parties cannot agree
15 on the specifications, the Parties shall implement MCI's specifications, unless Verizon
16 can prove that such specifications are not Technically Feasible, in which case the Parties
17 shall implement any other Technically Feasible specifications selected by MCI.
18 Specifications are presumed to be Technically Feasible if Verizon or any other ILEC has
19 previously implemented the same specifications.

20 1.1.5.2.1 Unless otherwise specified by MCI, the minimum data rate hand off of
21 the SONET transmission system must be at OC-48 or higher. Unless otherwise requested
22 by MCI, the Parties shall turn the Data Communication Channel (DCC) of the SONET
23 signal containing alarm, surveillance, and performance information to off.

1 1.1.5.2.2 Verizon shall, wholly at its own expense, procure, install, and maintain the
2 specified Fiber Optic Terminal (FOT) equipment in each Verizon Wire Center where the
3 Parties establish a Fiber Meet. The FOT must have capacity sufficient to provision and
4 maintain all logical trunk groups in accordance with the requirements of this
5 Attachment IV.

6 1.1.5.2.3 MCI shall, wholly at its own expense, procure, install and maintain the
7 specified FOT equipment in each MCI Wire Center where the Parties establish a Fiber
8 Meet. The FOT must have capacity sufficient to provision and maintain all logical trunk
9 groups in accordance with the requirements of this Attachment IV.

10 1.1.5.2.4 MCI shall designate a manhole or other suitable entry way located outside
11 Verizon's Wire Center as a Fiber Meet facility hand off point and shall make all
12 necessary preparations to receive, and to allow and enable MCI to deliver, fiber optic
13 facilities into that manhole, providing sufficient spare length of Optical Fire Resistant
14 (OFR) cable to reach the FOT equipment in Verizon's Wire Center. MCI shall deliver
15 and maintain such strands wholly at its own expense. Verizon shall take the fiber from
16 the manhole and terminate it inside Verizon's Wire Center in the FOT equipment at
17 Verizon's expense.

18 1.1.5.2.5 MCI shall designate a manhole or other suitable entry way outside
19 MCI's Wire Center as a Fiber Meet facility hand off point and shall make all necessary
20 preparations to receive, and to allow and enable Verizon to deliver, fiber optic facilities
21 into that manhole, providing sufficient spare length of OFR cable to reach the FOT
22 equipment in MCI's Wire Center. Verizon shall deliver and maintain such strands

1 wholly at its own expense. MCIIm shall take the fiber from the manhole and terminate it
2 inside MCIIm's Wire Center in the FOT equipment at MCIIm's expense.

3 1.1.5.2.6 Alternatively, MCIIm may designate a common facility hand off point
4 between the Parties' networks. Both Parties shall deliver their fiber optic facilities into
5 that common facility hand off point, providing sufficient spare length of OFR cable to
6 enable a SEICOR closure. Each Party shall be responsible for the delivery and
7 maintenance of facilities on its side of the common facility hand off point at its own
8 expense.

9 1.1.5.2.7 Each Party shall use its best efforts and cooperate with the other to ensure
10 that fiber received from the other Party will enter the Party's Wire Center through a
11 facility hand off point separate from that which the Party's own fiber exited. Each Party
12 shall research the fiber routes to ensure diversity and report to the other Party in writing
13 the location and distance of fiber running in close proximity.

14 1.1.5.2.8 Subject to the security requirements specified in this Agreement, each Party
15 shall allow the other access to the Fiber Meet entry points for maintenance purposes upon
16 oral request.

17

18 **Q. The Verizon Panel says that the selection of a fiber meet point**
19 **interconnection should not be at the discretion of the requesting carrier because this**
20 **form of interconnection requires a high degree of joint provisioning, maintenance,**
21 **and utilization. Please comment on this.**

22 A. As discussed above briefly, and more thoroughly at pages 63-70 of the Direct
23 Testimony of Donato Grieco and Gary Ball, WorldCom is entitled to any technically

1 feasible form of interconnection, including a fiber meet point method of interconnection,
2 upon request. Much of the needed detail can be included in the interconnection
3 agreement now. Verizon's approach is to agree to none of this now and to defer
4 everything to a future time.

5 **Issue III-5**

6 *Should the Interconnection Agreement include terms specifying that rates for transport*
7 *and termination of Local Traffic must be symmetrical; specifying the transport and*
8 *termination rates to be applied, including rates for tandem switching, transport to an end*
9 *office, and end office switching; and specifying that where WorldCom's switch serves a*
10 *geographic area comparable to the area served by Verizon's tandem switch, WorldCom*
11 *shall charge for tandem switching?*

12
13 **Q. Please summarize Verizon's objections to WorldCom's proposed language.**

14 A. WorldCom's position on this issue is faithful to the requirements of the
15 Telecommunications Act of 1996, the FCC's First Report and Order, and the FCC's
16 recent clarification on this issue found in the FCC's Intercarrier Compensation NPRM.
17 Verizon continues to ignore these requirements and argues that:

18 ➤ "If a CLEC's network and services are such that its costs are lower, the
19 CLEC's compensation should be lower." (page 25, ln 18 – 20)

20 ➤ "[I]f interconnection is such that CLEC traffic is not routed through a
21 tandem, then the CLEC should not receive a tandem-switched rate." (page 25, ln 20 –22)

22 ➤ "CLECs should be required to demonstrate actual functional and
23 geographic comparability for each of their switches, and should not receive tandem

1 switching rates unless each switch actually serves a geographically disperse customer
2 base.” [Emphasis added] (page 26 ln 22 – 23, page 27 ln 1 – 2)

3 These positions are not consistent with FCC rules that govern this issue and are not
4 supportable.

5

6 **Q. Are a CLEC’s costs to transport and terminate traffic on its network**
7 **relevant with regard to determining whether the CLEC is to be compensated at an**
8 **end office rate or tandem rate?**

9 A. No. As outlined in the July 31 Direct Testimony, the FCC, in its Local
10 Competition Order at paragraph 1085, concluded that the ILEC’s reciprocal
11 compensation rates should be adopted as the “presumptive proxy” for the CLEC’s rates.
12 The only exception to this is when a CLEC wants to establish that its transport and
13 termination costs are higher than those of the ILEC.

14 The FCC anticipated that a CLEC’s costs could be lower than the costs of the
15 ILEC. At paragraph 1086 of the Local Competition Order the FCC states, “CLECs
16 would have the correct incentives to minimize their costs because their termination
17 revenues would not vary directly with changes in their costs.”

18 Contrary to Verizon’s assertion, a CLEC’s costs do not have any bearing on the
19 level of reciprocal compensation that is appropriate for a CLEC’s transport and
20 termination activities.

21

1 **Q. Is a CLEC required actually to deploy a tandem network architecture with**
2 **subtending end offices in order to qualify for tandem level reciprocal compensation?**

3 A. No. The FCC recognized that CLECs most likely would not be deploying the
4 same network architecture as the ILECs. It is this recognition that is embodied in FCC
5 Rule 51.711(a)(3) which states:

6 Where the switch of a carrier other than an incumbent LEC serves a geographic
7 area comparable to the area served by the incumbent LEC's tandem switch, the
8 appropriate rate for the carrier other than an incumbent LEC is the incumbent
9 LEC's tandem interconnection rate.

10 This provision would not be needed if in fact the FCC had intended that a CLEC
11 must deploy a tandem with subtending end offices. Verizon's attempt to impose this
12 requirement is simply an attempt to force a CLEC competitor to mirror the Verizon
13 network architecture. Such a result would not encourage new entrants to deploy the most
14 efficient network.

15

16 **Q. Is Verizon's position that a CLEC's switch must perform tandem switch**
17 **functions and serve a geographic comparable area in order to be compensated at**
18 **the tandem level supported by the rules?**

19 A. No. As stated above, FCC Rule 51.711 requires that a CLEC's be compensated at
20 the tandem rate level if its switch serves a geographic area comparable to that served by
21 the ILEC's tandem switch. A functionality test is appropriate only in the event that a
22 CLEC's switch does not serve a geographic area comparable to the ILEC's tandem
23 switch. And, even then the FCC has directed state commissions to "consider whether

1 new technologies (e.g., fiber ring or wireless networks) perform functions similar to those
2 performed by an incumbent LEC's tandem switch." (Local Competition Order ¶ 1090).
3 Verizon's two-prong test (functionality and geographic comparability) is inconsistent
4 with FCC rules.

5

6 **Q. Verizon asserts that a CLEC switch must serve a geographically dispersed**
7 **customer base in order to qualify for tandem rates. Please comment.**

8 A. This is an incorrect interpretation of the requirements in the rules. Again,
9 § 51.711(a)(3) requires that the CLEC's switch serve "a geographic area comparable to
10 the incumbent LEC's tandem switch." There is no requirement for the CLEC to have a
11 "geographically dispersed customer base." A review of a CLEC's customer base may
12 provide insight into its marketing and sales success, but does not demonstrate the service
13 area of a CLEC's switch.

14

15 **Q. Please describe generally how WorldCom determine what geographic area**
16 **their networks will serve?**

17 A. Going back in time somewhat, many CLECs today were once competitive access
18 providers (CAPs). CAPs originally had fiber transmission resources that were utilized to
19 provide competitive offerings of dedicated private line / special access services. When
20 changes in the law gave them the opportunity to compete for customers in the switched
21 services market, many companies, such as WorldCom, looked at their CAP operations
22 and determined how well the geographic reach of those fiber facilities matched the
23 location of the perceived demand for local switched services. If it was determined that

1 the existing fiber facilities, perhaps supplemented with additional fiber, had a geographic
2 scope that reached a sufficient potential market share, a local switch was deployed. Once
3 the switch was deployed, numbering resources (NPA/NXXs) were acquired and opened
4 up for those rate centers which were within the physical reach of the network.

5

6 **Q. Explain what you mean by physical reach of the network.**

7 A. Simply that if a CLEC has established network facilities and opened NPA/NXXs
8 which allow end users within rate centers to originate and terminate local exchange
9 service, such rate centers would be considered within the physical or geographic reach of
10 the CLEC's network regardless of the number of customers the CLEC has been able to
11 attract.

12

13 **Q. How does WorldCom expand the geographic reach of its local network?**

14 A. WorldCom looks to four methods of placement and/or leasing of facilities to
15 expand their geographic service areas.

16 a) establishment of a collocation arrangement within an ILEC wire center and
17 the provision of transport facilities between the collocation arrangement and the CLEC
18 switch;

19 b) establishment of a local node which establishes a physical point on the fiber
20 transport facilities that allows customer access to local switched services;

21 c) extension of the fiber network (also potentially a component of the previous
22 two options); and

1 d) the purchase of enhanced extended links (EELs), as part of the CLEC's leased
2 network, which are used to reach geographic areas where the CLEC's physical network
3 does not currently reach.

4 It is important to note that, due to the CLEC's choice of network architecture,
5 placement of a new switch is not considered in conjunction with expanding the
6 geographic reach of the local network. The reason for this is that the cost of placing a
7 new switch to expand geographic reach is cost prohibitive relative to the deployment of
8 additional fiber. Accordingly any requirement to have multiple switches as evidence of a
9 "geographically comparable" network is not only inconsistent with the FCC's rules but
10 fails to recognize the differences in network architectures.

11

12 **Q. How does the physical reach of the network you describe relate to the**
13 **Verizon's proposed requirement that a CLEC serve a geographically dispersed**
14 **customer base?**

15 A. While a CLEC is always balancing demand with network reach, there is no
16 guarantee that the CLEC will be successful in gaining market share from the entrenched
17 monopolist incumbent. As the discussion above indicates, a CLEC must make an
18 investment in its network prior to being able to serve customers. To the extent that a
19 CLEC is slow to add customers after making a network investment, it only makes the
20 CLEC's costs, on a per customer or per minute basis, extremely expensive.

21 It would be far more representative of the geographic area served to consider the
22 network utilized by the CLEC. For example, a review of the rate centers the CLEC has

1 opened by activating associated NPA-NXXs, which would be served by the CLEC's
2 network would be indicative of the "reach" of that network.

3 Again, the CLEC's network must be considered with regard to the question of
4 geographic comparability, not a test of the CLEC's marketing success.

5

6 **Q. Please summarize WorldCom's position on the symmetry issue.**

7 A. The current rules do not support Verizon's position. If a CLEC's switch serves a
8 geographic area comparable to that served by the ILEC's tandem switch, the CLEC is to
9 be compensated at the tandem rate. There is no need for tandem functionality to be
10 demonstrated in the event the switch serves a comparable geographic area. Further,
11 Verizon's proposal that a CLEC serve a particular customer base must be rejected as this
12 too is unsupported by the rules. A CLEC must not be required to gain market share from
13 the ILEC in order to qualify for the tandem rate.

14

Issue IV-1

15 *How should third party transit traffic be routed and billed by the parties?*

16

17 **Q. The Verizon Panel criticized WorldCom's proposal that Verizon make**
18 **arrangements with third parties for compensation owed for call termination because**
19 **it does not compensate Verizon for the charges the receiving carrier levies on**
20 **Verizon for the termination of such traffic. Please comment on this.**

21 A. This criticism represents a mischaracterization of the WorldCom proposal.
22 WorldCom proposes that Verizon collect the compensation which is owed from the
23 originating carrier and then remit the compensation to the terminating carrier. Under the
24 proposal, Verizon is compensated by the originating carrier.

1 **Q. The other reason advanced by Verizon in opposition to this proposal is that it**
2 **obviates the need for WorldCom to interconnect directly with other carriers. Please**
3 **comment on this.**

4 A. As previously noted, WorldCom is entitled under the Act to interconnect
5 indirectly—and indirect interconnection is an efficient choice where two carriers
6 exchange minimal amounts of traffic. Similarly, WorldCom’s proposal that Verizon bill
7 originating carriers for reciprocal compensation on transit traffic and remit the proceeds
8 to the terminating carrier is an efficient process which minimizes the total number of bills
9 to be exchanged by all carriers.

10 **Issue IV-2**

11 *Is Verizon obligated to provide and use two-way trunks that carry each party’s traffic?*

12
13 **Q. In its testimony, the Verizon Panel indicated that Verizon does not believe**
14 **that it has the right to refuse to use two-way trunks. Please comment on this**
15 **testimony.**

16 A. The Verizon testimony is not consistent with Verizon’s actions. If Verizon
17 understands that it is required to provide two-way trunking upon request, it should accept
18 the contract language proposed by WorldCom which embodies this rule:

19 Unless otherwise indicated in this Agreement, trunks will
20 be provisioned as one-way or two-way trunks as specified
21 by MCIIm.

1 Because Verizon has not accepted this language, the Commission should order its
2 adoption consistent with the regulation which provides that “If technically feasible, an
3 incumbent LEC shall provide two-way trunking upon request.” 47 CFR § 51.305(f).

4

5 **Q. The Verizon Panel goes on to say that the parties must agree on the**
6 **standards for two-way trunking and reflect that understanding in the**
7 **Interconnection Agreement. Please comment on this.**

8 A. WorldCom has proposed detailed standards for two way trunking for inclusion in
9 the Interconnection Agreement during recent negotiations. However, Verizon has
10 refused to adopt any detailed two-way trunking standards unless they also incorporate
11 Verizon’s VGRIPs proposal. The detailed engineering and operational standards for two-
12 way trunking proposed by WorldCom during recent negotiations are as follows:

13 **Two-Way Interconnection Trunks.**

14 Where Two-Way Local Interconnection Trunks may be used under the terms of
15 this agreement, prior to ordering any Two-Way Local Interconnection Trunks
16 from Verizon, MCI shall meet with Verizon to conduct a joint planning meeting
17 (“Joint Planning Meeting”). At that Joint Planning Meeting, each Party shall
18 provide to the other Party originating CCS (Hundred Call Second) information,
19 and the Parties shall mutually agree on the appropriate initial number of Two-
20 Way End Office (as used herein, a.k.a. in other jurisdictions - Meet Point A (high
21 usage)) and Tandem (as used herein, a.k.a. in other jurisdictions - Meet Point B
22 (final)) Local Interconnection Trunks and the interface specifications (i.e., DS1 or
23 DS-3) at the Point of Interconnection (“POI”). At such Joint Planning Meetings,

1 the information provided shall use an economic CCS equal to five (5). A two-
2 way trunk group must be installed from a Verizon End Office or Verizon Tandem
3 to an appropriate POI (as such POI is determined under the terms of this
4 agreement).

5
6 On a semi-annual basis, MCI shall submit a good faith forecast to Verizon of
7 the number of End Office and Tandem Two-Way Local Interconnection Trunks
8 that MCI anticipates that Verizon will need to provide during the ensuing two
9 (2) year period.

10
11 The Parties shall meet (telephonically or in person) from time to time, as needed,
12 to review data on End Office and Tandem Two-Way Local Interconnection
13 Trunks to determine the need for new trunk groups and to plan any necessary
14 changes in the number of Two-Way Local Interconnection Trunks.

15
16 Two-Way Local Interconnection Trunks shall have SS7 Common Channel
17 Signaling. The Parties agree to utilize B8ZS and Extended Super Frame (ESF)
18 DS1 facilities, where available.

19
20 Two-Way Local Interconnection Trunk groups that connect to a Verizon access
21 Tandem shall be engineered using a design blocking objective of Neal-Wilkenson
22 B.005 during the average time consistent busy hour; Two-Way Local
23 Interconnection Trunk groups that connect to a Verizon local Tandem shall be

1 engineered using a design blocking objective of Neal Wilkenson B.01 during the
2 average time consistent busy hour. Verizon and MCI shall engineer Two-Way
3 Local Interconnection Trunks using national standards.

4
5 MCI shall determine and order the number of Two-Way Local Interconnection
6 Trunks that are required to meet the applicable design blocking objective for all
7 traffic carried on each Two-Way Local Interconnection Trunk group. MCI shall
8 order Two-Way Local Interconnection Trunks by submitting ASRs to Verizon
9 setting forth the number of Two-Way Local Interconnection Trunks to be
10 installed and their respective CFAs and the requested installation dates within
11 Verizon's effective standard intervals or negotiated intervals, as appropriate.
12 MCI shall complete ASRs in accordance with Ordering and Billing Forum
13 Guidelines as in effect from time to time.

14
15 Verizon may monitor Two-Way Local Interconnection Groups using service
16 results for the applicable design blocking objective. If Verizon observes blocking
17 in excess of the applicable design objective on any final Two-Way Local
18 Interconnection Trunk group (which, for the avoidance of any doubt, does not
19 include blocking due to anomalies) and MCI has not notified Verizon that it has
20 corrected such blocking, Verizon may submit to MCI a Trunk Group Service
21 Request directing MCI to remedy the blocking. Upon receipt of a Trunk Group
22 Service Request, MCI will, within five (5) business days, complete and submit

1 to Verizon an ASR to augment such final Two-Way Local Interconnection Group
2 in order to eliminate such blocking.

3

4 The standard on final Two-Way Local Interconnection Trunks is that no such
5 Local Interconnection Trunk group will exceed its design blocking objective
6 (B.005 or B.01, as applicable) for three (3) consecutive calendar traffic study
7 months.

8

9 Because Verizon will not be in control of the timing and sizing of the Two-Way
10 Local Interconnection Trunks between its network and MCI's network,
11 Verizon's performance on these Two-Way Local Interconnection Trunk groups
12 shall not be subject to any performance measurements and remedies under this
13 Agreement, and, except as otherwise required by Applicable Law, under any FCC
14 or Commission approved carrier-to-carrier performance assurance guidelines or
15 plan.

16

1 Upon three (3) months prior written notice and with the mutual agreement of the
2 Parties, either Party may withdraw its traffic from a Two-Way Local
3 Interconnection Trunk group and install One-Way Local Interconnection Trunks
4 to the applicable POI. Additionally, subject to mutual agreement, the Parties may
5 establish project intervals and a conversion process by which MCIIm may request
6 that Verizon convert existing One-Way trunk groups to Two-Way trunk groups.
7 If the Parties have established a primary high usage trunk group from an end
8 office, the first route choice will be that trunk group. The Parties shall route
9 traffic in accordance with Telcordia SR-TAP 191.

10
11 All charges, both non-recurring and recurring, associated with interconnecting
12 trunk groups between Verizon and MCIIm are set forth in the Pricing Attachment
13 of this Agreement. For two-way trunking that carries both Parties' traffic,
14 including trunking that carries Transit Traffic, each Party shall pay its
15 proportionate share of the recurring charges for transport facilities based on the
16 percentage of the total traffic originated by that Party. MCIIm shall determine the
17 applicable percentages four times per year based on the previous quarter's minutes
18 of use billed by each Party. Each Party shall pay fifty percent (50%) of the
19 nonrecurring charges for initial facilities based on the joint forecasts for circuits
20 required by each Party.

21

1 **Q. Please comment on Verizon's position that it will not agree to two-way**
2 **trunking terms unless the Interconnection Agreement reflects Verizon's VGRIPs**
3 **proposal.**

4 A. The terms proposed above do not adopt either Verizon's or WorldCom's position
5 on the point of interconnection issue. These terms address two-way trunking as an
6 independent issue. The Interconnection Agreement can and should contain detailed two-
7 way trunking terms, as set forth above, independent of the point of interconnection issue.
8 There is no reason to link the two issues.

9 **Q. Does this conclude your testimony?**

10 A. Yes.

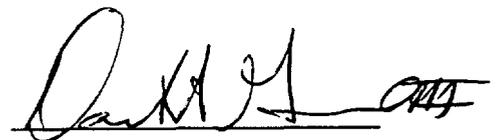
**BEFORE THE
FEDERAL COMMUNICATIONS COMMISSION**

In the Matter of)	
Petition of WorldCom, Inc. Pursuant)	
to Section 252(e)(5) of the)	
Communications Act for Expedited)	
Preemption of the Jurisdiction of the)	CC Docket No. 00-218
Virginia State Corporation Commission)	
Regarding Interconnection Disputes)	
with Verizon-Virginia, Inc., and for)	
Expedited Arbitration)	

Declaration of Donato Grieco

I, Donato Grieco, declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge, information and belief.

Executed this 8th day of August, 2001.



Donato Grieco

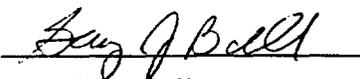
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Virginia State Corporation Commission)
Docket No. 00-00000000000000000000)
GARY CHIZOFF, Director,)
Virginia State Corporation Commission)

Declaration of Gary Ball

I, Gary Ball, declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge, information and belief.

Executed this 10th day of August, 2001.



Gary Ball